

AS

Abstract

## Capping Layer for EUV Optical Elements

- 5        Optical elements such as multilayered EUV mirrors are provided with protective capping layers of diamond-like carbon (C), boron nitride (BN), boron carbide ( $B_4C$ ), silicon nitride ( $Si_3N_4$ ), silicon carbide (SiC), B, Pd, Ru, Rh, Au,  $MgF_2$ , LiF,  $C_2F_4$ , and TiN and compounds and alloys thereof. The final period of a multilayer coating may also be modified to provide improved protective characteristics

10

Fig. 13

09605657 062800